

Table 21. Commodity storage densities and storage requirements.

Description	Density	Storage Vol.
	(lb/ft ³)	(ft ³ /ton)
Alfalfa meal, dehydrated, 13%	16-18	111-125
Alfalfa meal, dehydrated, 17%	18-22	91-111
Barley, ground	24-26	77-83
Barley, malt	30-31	65-67
Blood meal	39	52
Bone meal	50-60	33-40
Brewers' dried grain	14-15	133-143
Brewers' grain, spent, dry	25-30	67-80
Brewers' grain, wet	55-60	33-36
Calcium carbonate	75	27
Corn distillers' dried grains	18	111
Corn distillers' dried soluble	25-26	77-80
Corn, whole shelled	45	44
Cottonseed hulls	12	167
Cottonseed oil meal	37-40	50-54
Cottonseed with lint	18-25	80-111
Cottonseed, delinted	25-35	57-80
Dairy concentrates	43	47
Dried beet pulp	11-16	125-182
Dried citrus pulp	21	98
Hay, loose	5	400
Hay, pressed	8	250
Limestone	68	29
Malt sprouts	13-16	125-154
Milo, ground	32-36	56-63
Oats, rolled	19-24	83-105
Oats, whole	25-35	57-80
Phosphate, tricalcium	21	95
Rice, hulls	20-21	95-100
Sorghum, grain	32-35	57-63
Soybean hulls, ground	20	100
Soybean hulls, unground	6-7	286-333
Soybean oil meal (expeller)	36-40	50-56
Soybeans, grain	46-48	42-43
Wheat middlings (std.)	18-25	80-111
Wheat, ground	38-39	51-53

Source: Proceedings: Alternative Feeds for Dairy and Beef Cattle,